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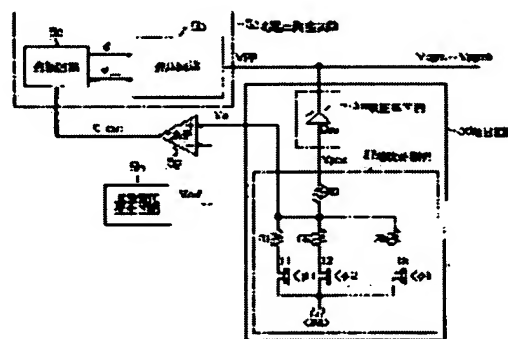
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(54) VOLTAGE SUPPLY CIRCUIT AND SEMICONDUCTOR NONVOLATILE STORAGE DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To generate a program voltage and to efficiently execute a data program by controlling a high voltage generating circuit with a boosting control signal obtained by a comparison result between a voltage selectively dropped from a boosted voltage of the high voltage generating circuit through a voltage dropping means and a resistance dividing means.

SOLUTION: The high voltage VPP of the high voltage generating circuit 5a is dropped by a prescribed voltage by a voltage dropping part 5e with a Zener diode Dze to output a dropped voltage VPPd. This dropped voltage VPPd is voltage-divided by a resistance dividing circuit 5f with a resistor R0 and resistor elements R1-Rk connected with transfer gates T1-Tk by control signals ϕ_{1-1} - ϕ_{1-k} to output a divided voltage Va. An oscillation circuit 5c is controlled by the boosting control signal C-out outputted by a comparator circuit 5g comparing the divided voltage Va with the reference voltage Vref. By this method, gradually increasing program word line voltages Vpgm1-k are outputted, and increase of an occupied area of the resistor elements can be avoided.



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